IAP3 Rec'd PCT/PTO 28 DEC 2005

Under the Paperwork Reduc-

U.S. Patent and Trad t of 1995, no persons are required to respond to a collection of informa-

PTO-1390 (Rev. 02-2005) 1, for use through 3/31/2007. OMB 0651-0021 Affice; U.S. DEPARTMENT OF COMMERCE unless it displays a valid OMB control number.

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)				ATTORNEY'S DOCKET NUMBER 436589 U.S. APPLICATION NO. (If known, see 37 CFR 1.5)		
(CON	CERNING A SUBMISSION	UNDER 35 U.S.C. 371	10/535,688		
INTERNATIONAL APPLICATION NO.			INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED		
_	T/EP03/ LE OF II		November 6, 2003 CONDUCTOR LASERS HAVING BURIED TUNNE	November 12, 2002 L JUNCTIONS AND METHODS OF PRODUCING SAME		
AP	PLICAN'	T(S) FOR DO/EO/US Marcus-Christian AM	IANN			
		<u> </u>	s Designated/Elected Office (DO/EO/US)	the following items and other information:		
1.			ncerning a submission under 35 U.S.C. 371.			
2.	× 1	This is a SECOND or SUBSEQUENT so	ubmission of items concerning a submission	under 35 U.S.C. 371.		
3.		This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items				
١.	_	(5), (6), (9) and (21) indicated below.	•			
4. -		The US has been elected (Article 31).	51 1/05 11 0 0 074(1/0)			
5.		A copy of the International Application	only if not communicated by the Internationa	N Purpose)		
		a. sattached hereto (required)b. has been communicated by	•	a Dureau).		
			ation was filed in the United States Receivin	g Office (RO/US).		
6.		An English language translation of the	e International Application as filed (35 U.S.C	5. 371(c)(2)).		
		a. is attached hereto.	•			
		b. has been previously submitted	ed under 35 U.S.C. 154(d)(4).			
7.		Amendments to the claims of the Inte	emational Application under PCT Article 19 (35 U.S.C. 371(c)(3))		
	a. are attached hereto (required only if not communicated by the International Bureau).					
		b. have been communicated by	y the International Bureau.			
		c. have not been made; however	ver, the time limit for making such amendme	nts has NOT expired.		
İ		d. have not been made and wil	Il not be made.			
8.		An English language translation of th	e amendments to the claims under PCT Arti	icle 19 (35 U.S.C. 371(c)(3)).		
 9 An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 						
			kamination Report under PCT			
İ	Items	11 to 20 below concern document(s) or information included:	·		
11.	\boxtimes	An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.			
12.	\boxtimes	An assignment document for recording	ng. A separate cover sheet in compliance with	h 37 CFR 3.28 and 3.31 is included.		
13.		A preliminary amendment.				
14.		An Application Data Sheet under 37 CFR 1.76.				
15.		A substitute specification.				
16.	\boxtimes	A power of attorney and/or change of address letter.				
17.		A computer-readable form of the sequence	uence listing in accordance with PCT Rule 13	3ter.2 and 37 CFR 1.821- 1.825.		
18.		• • • • • • • • • • • • • • • • • • • •	national Application under 35 U.S.C. 154(d)(4			
19.		A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).				
	20. 🔯 Other items or information: Submission of Missing Requirements, IDS Transmittal, Copy of 10 References, Certificate of Mailing and Return Post Card					

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO-1390 (Rev. 02-2005)

Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. ATTORNEY'S DOCKET NUMBER U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. PCT/EP03/12433 436589 10/535,688 CALCULATIONS PTO USE ONLY The following fees are submitted: Basic national\$300 21. 22.

Examination Fee If international preliminary examination report prepared by USPTO and all claims satisfy provisions of \$ PCT Article 33(1)-(4)\$100 All other situations 23. Search fee Search fee (37 CFR 1.445(a)(2) has been paid on the international application to the USPTO as an All other situations TOTAL OF 21, 22 and 23 = \$ 0 Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra sheets Number of each additional 50 or fraction RATE thereof (round up to a whole number) \$ 0 - 100 = 0/50 = x \$250 \$ 130 Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)) **CLAIMS** NUMBER FILED NUMBER EXTRA RATE \$0 - 20 = 0 x \$50 Total claims \$0 Independent claims - 3 = 0 x \$200 \$ MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360 TOTAL OF ABOVE CALCULATIONS = \$ 130 Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. \$ \$ 130 Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest \$ 130 claimed priority date (37 CFR 1.492(f)). **TOTAL NATIONAL FEE =** \$ 260 Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31), \$40.00 per property

01/03/200 | FIRHTPHUH 00000101 120000 10333550 \$ 40 **TOTAL FEES ENCLOSED =** \$ 300 130.00 DA 01 FC:161 02 FC:161 Amount to be \$ 130.00 DA refunded: Amount to be \$

a.	\Box	A check in the amount of \$ to cover the above lees is enclosed.
b	\boxtimes	Please charge my Deposit Account No. 12-0600 in the amount of \$ 300.00 to cover the above fees.
		A duplicate copy of this sheet is enclosed.
C.	\boxtimes	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit
		Account No. 12-0600 . A duplicate copy of this sheet is enclosed.
d.		Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not
ł		be included on this form. Provide credit card information and authorization on PTO-2038.
NO	TE: Who	ere an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed
and	grante	d to restore the International Application to pending status.
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

SEND ALL CORRESPONDENCE TO:
CUSTOMER NO. 30955

LATHROP & GAGE LC 4845 Pearl East Circle, Suite 300 Boulder, Colorado 80301

SIGNATURE		
Curtis A. Vock	 	
NAME		
38,356		

REGISTRATION NUMBER

charged:

CERTIFICATE OF EXPRESS MAIL PO	MAILING BY OST OFFICE TO ADDR	RESSEE (37 CFR 1.10)	Matter No.
Applicant(s): Marcus-Christian Amann			436589
Serial No.	Filing Date	Examiner	Group Art Unit
10/535,688	May 19, 2005	Not Yet Assigned	Not Yet Assigned

Invention Surface-Emitting Semi-Conductor Lasers Having Buried Tunnel Junctions And Methods of Producing same

I hereby certify that the following: Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Submission Under 35 U.S.C. 371 (2 pages in duplicate); Response to Missing Requirements (1 page); Copy of Notification of Missing Requirement Under 35 USC 371 In the United States Designated/Elected Office (DO/EO/US) (2 pages); Declaration And Power of Attorney For Patent Application (3 pages); Recordation Form Cover Sheet (1 page in duplicate); Assignment for Application (1 page); Power of Attorney And Correspondence Indication Form (1 page); Statement Under 37 CFR 3.73(b) with copy of Assignment (2 pages); Information Disclosure Statement By Applicant (2 pages); Copy of 10 references; authorization to charge \$300 (\$130 for the late filing of translation, \$130 for late filing of declaration and \$40 for the recordation); authorization to charge additional fees that may be required, or credit any overpayment, to Deposit Account No. 12-0600; and return post card are being mailed in an envelope addressed to: Mail Stop: PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 28th day of December, 2005.

Sharm Dohonk	
Signature of Depositor	
	•
EV413219918US	
Express Mail Label No.	

Sharon Schenk

rney Docket No.: 436589

Express Mail Label No.: EV413219918US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Marcus-Christian Amann

Serial No.:

10/535,688

Filed:

May 19, 2005

For

Surface-Emitting Semi-Conductor Lasers

Methods of Producing Same

Having Buried Tunnel Junctions And

Examiner:

Not Yet Assigned

Group Art No.:

Not Yet Assigned

Confirmation No.

4283

December 28, 2005

Mail Stop PCT Commissioner For Patent P.O. Box 1450 Alexandria, VA 22313-1450

RESPONSE TO MISSING REQUIREMENTS

Dear Sir:

In response to the Notification of Missing Requirements Under 35 USC 371 In The United States Designated/Elected Office (DO/EO/US) dated November 28, 2005 (copy appended), enclosed herewith find the following:

- Declaration And Power of Attorney For Patent Application; 1.
- 2. Recordation Form Cover Sheet;
- 3. Assignment;
- 4. Power of Attorney And Correspondence Address Indication Form; and
- 5. Statement Under 37 CFR 3.73(b).

Pursuant to 37 CFR 1.492(i), the \$130.00 fee for late submission of translation; 37 CFR 1.492(h) for late filing of the Declaration and pursuant to 37 CFR 1.21, the \$40.00 fee for recordation of assignment should be applied against our Deposit Account No. 12-0600. Any additional fee which might be due in connection with this request should be applied against our Deposit Account No. 12-0600.

The Examiner is encouraged to contact the undersigned if prosecution of the application may be expedited thereby.

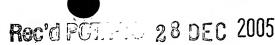
Respectfully submitted,

LATHROP & GAGE LLC

Curtis A. Vock, Reg. No. 38,356

4845 Pearl East Circle, Suite 300 Boulder, Colorado 80301

Tel No: (720) 931-3011 Fax No: (720) 931-3001





United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Viginia 22313-1450 www.uspto.gov

ATTY, DOCKET NO. FIRST NAMED APPLICANT U.S. APPLICATION NUMBER NO. 10/535,688 Marcus-Christian Amann 436589

30955 LATHROP & GAGE LC 4845 PEARL EAST CIRCLE SUITE 300 BOULDER, CO 80301

INTERNATIONAL APPLICATION NO. PCT/EP03/12433 I.A. FILING DATE PRIORITY DATE 11/12/2002 11/06/2003

CONFIRMATION NO. 4283 371 FORMALITIES LETTER *OC000000017349976*

Date Mailed: 11/28/2005

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 05/19/2005
- English Translation of the IA filed on-05/19/2005
- Copy of the International Search Report filed on 05/19/2005
- Copy of IPE Report filed on 05/19/2005
- Preliminary Amendments filed on 05/19/2005
- Copy of references cited in ISR filed on 05/19/2005
- U.S. Basic National Fees filed on 05/19/2005
- Substitute Specification filed on 05/19/2005
- Priority Documents filed on 05/19/2005

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Processing fee for providing the translation of the application and/or the Annexes later than 30 months from the priority date (37 CFR 1.492(i)).
- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.



SUMMARY OF FEES DUE:

Total additional fees required for this application is \$260 for a Large Entity:

- \$130 Surcharge.
- \$130 for English translation surcharge required.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice **MUST** be returned with the response.

MAMIE P PERSON

Telephone: (703) 308-9140 EXT 227

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/535,688	PCT/EP03/12433	436589

FORM PCT/DO/EO/905 (371 Formalities Notice)